

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/770,340 — 10665330
Filing Date	January 26, 2001
First Named Inventor	Kosaraju Krishna MOHAN
Group Art Unit	
Examiner Name	
Attorney Docket No.	54821.P1

Sheet 1 of 5

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear
		3,293,114	D. Kenaga, et al.	12/20/1966	
		3,357,322	L. D. Gill	01/12/1965	
		3,468,467	S. W. Amberg	09/23/1969	
		3,556,934	F. Meyer	01/19/1971	
		3,615,972	D. Morehouse, et al.	10/26/1971	
		3,779,951	R. Streu	12/18/1973	
		3,785,254	Robert H. Mann	01/15/1974	
		3,941,634	H. Nisser, et al.	03/02/1976	
		4,051,277	R. M. Wilkinson	09/27/1977	
		4,133,688	W. H. Sack	01/09/1979	
		4,233,325	G. Slangen	11/11/1980	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Office <sup>2</sup>	Number <sup>3</sup>				

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>4</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
<sup>1</sup>Unique citation designation number. <sup>2</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup>Applicant is to place a check mark here if English language translation is attached.

F:\54821P1.kds.wpd

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	09/170,340 10665330
Filing Date	January 26, 2001
First Named Inventor	Kosaraju Krishna MOHAN
Group Art Unit	
Examiner Name	
Attorney Docket No.	54821.P1

Sheet 2 of 5

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear
		4,237,171	Fred C. Laage	12/02/1980	
		4,241,125	R. G. Canning	12/23/1980	
		4,435,344	A. Iioka	03/06/1984	
		4,451,585	B. Andersson	05/29/1984	
		4,483,889	B. Andersson	11/20/1984	
		4,548,349	R. Tunberg	10/22/1985	
		4,581,285	E. Mahefkey, Jr.	04/08/1986	
		4,617,223	D. F. Hiscock	10/14/1986	
		4,619,734	I. Andersson	10/28/1986	
		4,777,930	M. E. Harz	10/18/1988	
		4,781,243	N. DeVogel	11/01/1988	
		4,836,400	W. Chaffey, et al.	06/06/1989	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Office <sup>2</sup>	Number <sup>3</sup>				

## **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
<sup>1</sup>Unique citation designation number. <sup>2</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup>Applicant is to place a check mark here if English language translation is attached.

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete If Known**

Application Number	09/770,340 10665330
Filing Date	January 26, 2001
First Named Inventor	Kosaraju Krishna MOHAN
Group Art Unit	
Examiner Name	

Sheet	3	of	5	Attorney Docket No.	54821.P1
-------	---	----	---	---------------------	----------

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear
		4,898,752	G. A. Cavagna	02/06/1990	
		4,902,722	G. E. Melber	02/20/1990	
		4,946,737	C. M. Lindeman, et al.	08/07/1990	
		4,982,722	W. Burk Wyatt	01/08/1991	
		5,092,485	T. T. Lee	03/03/1992	
		5,096,650	D. J. Renna	03/17/1992	
		5,125,996	B. C. Campbell, et al.	06/30/1992	
		5,145,107	V. K. Silver	09/08/1992	
		5,226,585	R. Varano	07/13/1993	
		5,363,982	C. E. Sadlier	11/15/1994	
		5,370,814	I. O. Salyer	12/06/1994	
		5,424,519	G. Salee	06/13/1995	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Office <sup>2</sup>	Number <sup>3</sup>				

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.	T*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete If Known

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)	Application Number		09/770,340 10665330		
	Filing Date		January 26, 2001		
	First Named Inventor		Kosaraju Krishna MOHAN		
	Group Art Unit				
	Examiner Name				
Sheet	4	of	5	Attorney Docket No.	54821.P1

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear
		5,454,471	J. Norvell	10/03/1995	
		5,477,917	I. Salyer	12/26/1995	
		5,478,988	T. E. Hughes, et al.	12/26/1995	
		5,490,631	A. Iioka	02/13/1996	
		5,499,460	Y. G. Bryant	03/19/1996	
		5,520,103	D. Zielinski, et al.	05/28/1996	
		5,601,744	Wayne D. Baldwin	02/11/1997	
		5,637,389	David Colvin, et al.	06/10/1997	
		5,705,242	P. J. Andersen	01/06/1998	
		5,759,624	Douglas Neale, et al.	06/02/1988	
		5,792,398	Bengt Andersson	08/11/1998	
		5,880,435	William M. Rostic	03/09/1999	
		5,884,006	S. Frohlich, et al.	03/16/1999	
		5,952,068	D. Neale, et al.	09/14/1999	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Office <sup>2</sup>	Number <sup>3</sup>				

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T*
		Tappi/ May 1972, Vol. 55, No. 5, pg. 770-771	
		Tappi/ December 1973, Vol. 56, No. 12, Pg. 158-160	
		"The Use of Microspheres to Improve Paper Properties", by Soderberg, Paper Technology, August 1989, pgs. VIII/17-VII/21	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
<sup>1</sup>Unique citation designation number. <sup>2</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Applicant is to place a check mark here if English language translation is attached.

F:\54821\P1.ids.wpdF:\54821\P1.ids.wpd

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete If Known

Application Number 09/770,340 10665330  
 Filing Date January 26, 2001  
 First Named Inventor K. Mohan, et al.  
 Group Art Unit \_\_\_\_\_  
 Examiner Name \_\_\_\_\_  
 Attorney Docket No. 54821.P1

Sheet 5 of 5

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T*
		Office <sup>2</sup>	Number <sup>3</sup>				

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T*
		"XPANCEL®", An Introduction, a publication from Expancel, Box 13000, S0-850 13 Sundsvall, SWEDEN	
		"The Application of Microspheres for the Production of High Bulk Papers", by M. Baumeister, Das Papier, Vol. 26, no. 10A: 716-720 (1972)	
		"Microspheres find use as fiber replacement in low-density board", by David O. Bowen, Pulp & Paper November 1976, pg. 126-127	
		EXPANCEL ® Expandable Microspheres in Paper and Board, by Mark Lunabba, KemaNord Plast AB, Sector Microspheres, Box 13000, S-850 13 Sundsvall, SWEDEN	
		"Expandable Microspheres in Board", World Pulp & Paper Technology, pgs. 143-145	
		"Foams on the Cutting Edge", by Ray Erikson, January 1999	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Compleat If Known

Application Number	09/770,340 10665330
Filing Date	January 26, 2001
First Named Inventor	Kosaraju Krishna MOHAN
Group Art Unit	
Examiner Name	
Attorney Docket No.	54821.P1

Sheet

1

of

1

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear
		3,819,470	Shaw, et al.	06-25-1974	
		4,179,546	Garner, et al.	12-18-1979	
		4,324,753	Gill	04-13-1982	
		4,988,478	Held	01-29-1991	
		5,800,676	Koike, et al.	09-01-1998	
		6,379,497	Sandstrom, et al.	04-30-2002	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Office <sup>3</sup>	Number <sup>3</sup>				

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup>Applicant is to place a check mark here if English language translation is attached.

F:\54821\54821.P1.SUPPLEMENT-IDS.2.wpd

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)			Complete If Known	
			Application Number	<del>091770,340</del> 10665330
			Filing Date	<del>January 26, 2001</del> June 7, 2001
			First Named Inventor	Kosaraju Krishna MOHAN
			Group Art Unit	
Examiner Name				
Attorney Docket No.	54821.P1			
Sheet	1	of	5	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Office <sup>3</sup>	Number <sup>3</sup>				
		JA	2669767	Oji Paper Co.	1997		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
<sup>1</sup>Unique citation designation number. <sup>2</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup>Applicant is to place a check mark here if English language translation is attached.

F:\54821\1.SUPP4DS.fm